ACR Nauticast™-B

Automatic Identification System

Class B

The Science of Survival

ACR ELECTRONICS

COBHAM

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THE SCIENCE ACR ELECTRONICS OF SURVIVAL

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The Nauticast™-B Automatic Identification System (AIS) from ACR Electronics is a Class B transponder that is designed to bring you the best in bridge electronics. The Nauticast™-B offers a great value and an excellent feature set.

The Nauticast™-B is a black box solution that comes to you as a compact, all-in-one kit, providing you with space savings and simplicity. The kit includes both VHF and GPS antennas and ACR's Link2AIS™ Software. The Link2AIS™ Software may be installed on an onboard PC, or third party software that is AIS-capable may be used. The Nauticast™-B also can be interfaced to chart plotters/Multi Functional Displays (MFDs) which display targets.

The transponder has an external Safety Related Message (SRM) feature, with user configurable messages. The transponder can be mounted below deck for added convenience.

AIS increases navigational domain awareness by transmitting vessel identification, position, course, and speed to other AIS equipped vessels and base stations. This helps reduce the difficulty of identifying ships when not in sight and understanding their navigational intentions.

Link2AIS™ software provides coastline detail, shown are user selectable radar views, North Up and Course Up

Product Number	2680
Model Number	AIS-B
Size	7.8 x 6.2 x 1.84" (18 x 15.8 x 4.7 cm)
Weight	13.2 oz. (375 g)
Power	DC: (9.6-15.6V). Average power consumption 4W. Peak current rating 2A
GPS Receiver	AIS Internal, IEC 61108-1 compliant
Electrical Interfaces	RS232, 38.4k baud bidirectional
Antennas	VHF Antenna connector (UHF female bulkhead connector) GPS Antenna connector (TNC female bulkhead connector)
Interface Cable	15 pin DSUB connector with 4 leads: Data-RS232; Data-RS422; Remote switch, Power
VHF Transceiver	Transmitter x1 Receiver x 2 (one receiver time shared between AIS and DSC)
AIS1 :161.975 MHz	Frequency 156.025-162.025 MHz in 25kHz steps
AIS2: 162.025 MHz	Frequency 156.025-162.025 MHz in 25kHz steps

Output Power	2W (33dBm +/- 1.5 dB)
Channel Bandwidth	25kHz
Channel Step	25kHz
Modulation Modes	25 kHz GMSK (AIS, TX and RX), 25 kHz AFSK (DSC, RX only)
Bit Rate	9600 b/s +/- 50 ppm (GMSK) 1200 b/s +/- 30 ppm (FSK)
RX Sensitivity	Sensitivity - 107 dBm 25kHz (message error rate 20%) Co-channel 10dB, adjacent channel 70dB, IMD 65dB, blocking 84dB
Environmental	IEC 60945, IP 67
Operating Temp	-13˚ to 131˚F (-25˚ to 55˚C)
Indicators	Power, TX timeout, status, pre-set SRM sent or silent mode
Operator Controls	Optional pre-set safety related message (SRM) transmit button or Silent mode (no transmit, user configured)
Approvals	FCC, USCG, R&TTE Phoenix, BSH
Limited Warranty	1 year

Nauticast™-B Kit

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